

Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

Latitude
14.5646796°

Longitude
79.9888076°

Local 11:44:29 AM
GMT 06:14:29 AM

Altitude -85.599998 meters
Sunday, 18-10-2020



Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

Latitude

14.563957°

Local 11:43:31 AM

GMT 06:13:31 AM

Longitude

79.9887678°

Altitude 0 meters

Tuesday, 06-10-2020



BENEFITS AND FUTURE SCOPE:

- The technique provides larger benefits when the number of parallel filters is large.
- The proposed scheme can also be applied to the IIR filters. Future work will consider the evaluation of the benefits of the proposed technique for IIR filters.
- The extension of the scheme to parallel filters that have the same input and different impulse responses is also a topic for future work.

Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

Latitude

14.5643918°

Longitude

79.9887994°

Local 11:30:48 AM

GMT 06:00:48 AM

Altitude -78.5 meters

Sunday, 18-10-2020



Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

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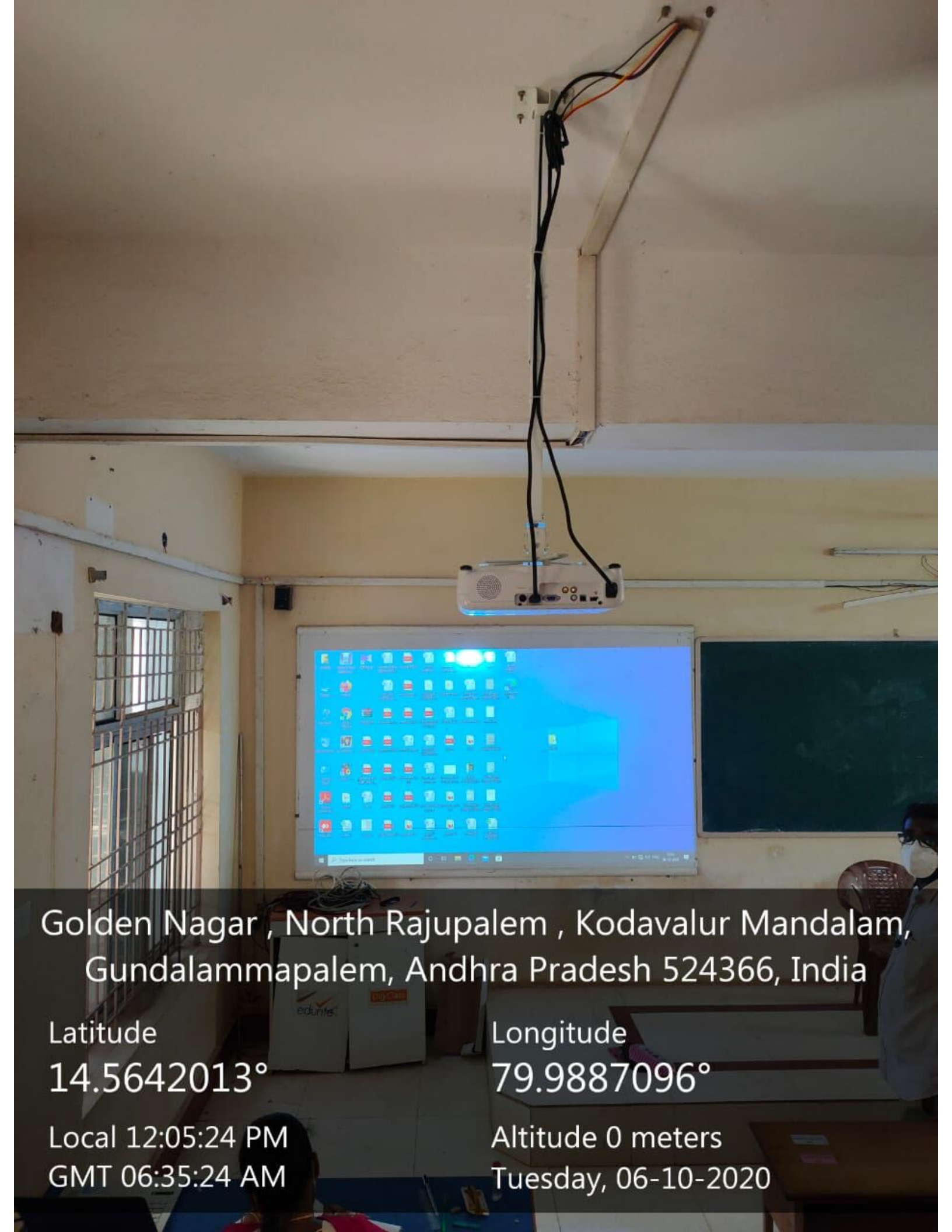
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Tuesday, 06-10-2020



Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

Latitude

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Altitude 0 meters

Tuesday, 06-10-2020



Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

Latitude

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Local 11:33:35 AM

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Altitude 0 meters

Tuesday, 06-10-2020



1679 - 1702 (24)
1476 - 1499 (24)



Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

Latitude

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Altitude -65.300003 meters

Tuesday, 06-10-2020



Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

Latitude

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Altitude -65.300003 meters

Tuesday, 06-10-2020



Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

Latitude

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Longitude

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Tuesday, 06-10-2020



Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

Latitude

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Longitude

79.988708°

Local 11:20:00 AM

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Altitude 0 meters

Tuesday, 06-10-2020



Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

Latitude

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Longitude

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Local 11:27:39 AM

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Tuesday, 06-10-2020



Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

Latitude

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Longitude

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Local 11:36:23 AM

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Altitude 0 meters

Tuesday, 06-10-2020

INTRODUCTION :

- Digital filters are widely used in signal processing and communication systems.
- In some cases, the reliability of those systems is critical, and fault tolerant filter implementations are needed.
- As technology scales, it enables more complex systems that incorporate many filters. In those complex systems, it is common that some of the filters operate in parallel.

Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

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GMT 06:37:41 AM

Longitude

79.9888045°

Altitude -74.599998 meters

Sunday, 18-10-2020

BENEFITS AND FUTURE SCOPE:

- The technique provides larger benefits when the number of parallel filters is large.
- The proposed scheme can also be applied to the IIR filters. Future work will consider the evaluation of the benefits of the proposed technique for IIR filters.
- The extension of the scheme to parallel filters that have the same input and different impulse responses is also a topic for future work.

Room - 9

AV 200909001537 - 1582 (24)

AV 200909001356 - 1379 (24)

Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

Latitude

14.5644859°

Longitude

79.9887532°

Local 11:38:04 AM

GMT 06:08:04 AM

Altitude -83.599998 meters

Sunday, 18-10-2020

- An interesting property for these parallel filters is that the sum of any combination of the outputs $y_i[n]$ can also be obtained by adding the corresponding inputs $x_i[n]$ and filtering the resulting signal with the same filter $h[l]$.

$$y_1[n] + y_2[n] = \sum_{l=0}^{\infty} (x_1[n-l] + x_2[n-l]) \cdot h[l] \quad (2)$$

Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

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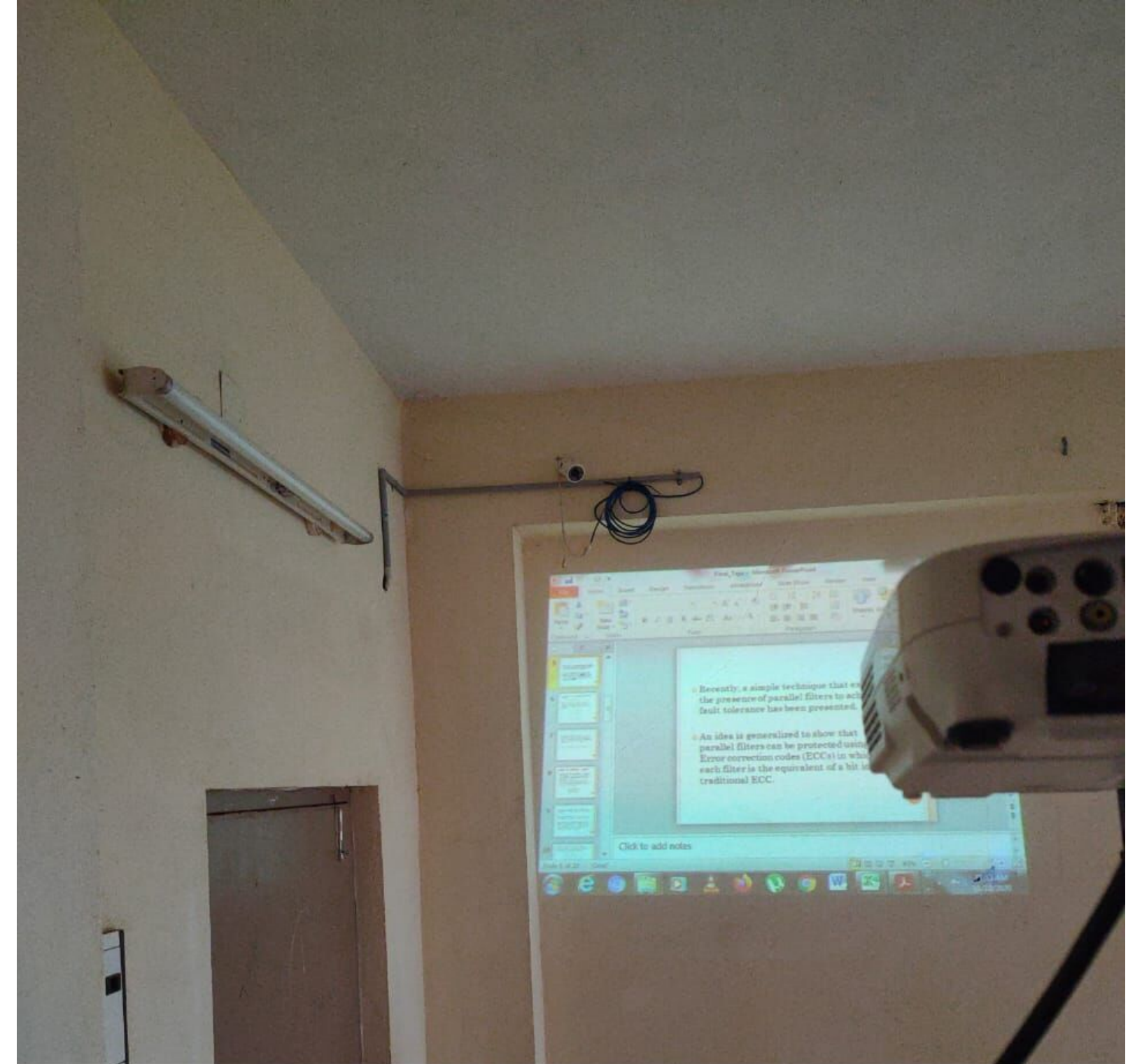
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Local 12:13:41 PM

GMT 06:43:41 AM

Altitude -85.599998 meters

Sunday, 18-10-2020



Recently, a simple technique that en-
the presence of parallel filters to ach-
fault tolerance has been presented.

An idea is generalized to show that
parallel filters can be protected using
Error correction codes (ECCs) in which
each filter is the equivalent of a bit in
traditional ECC.

Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

Latitude

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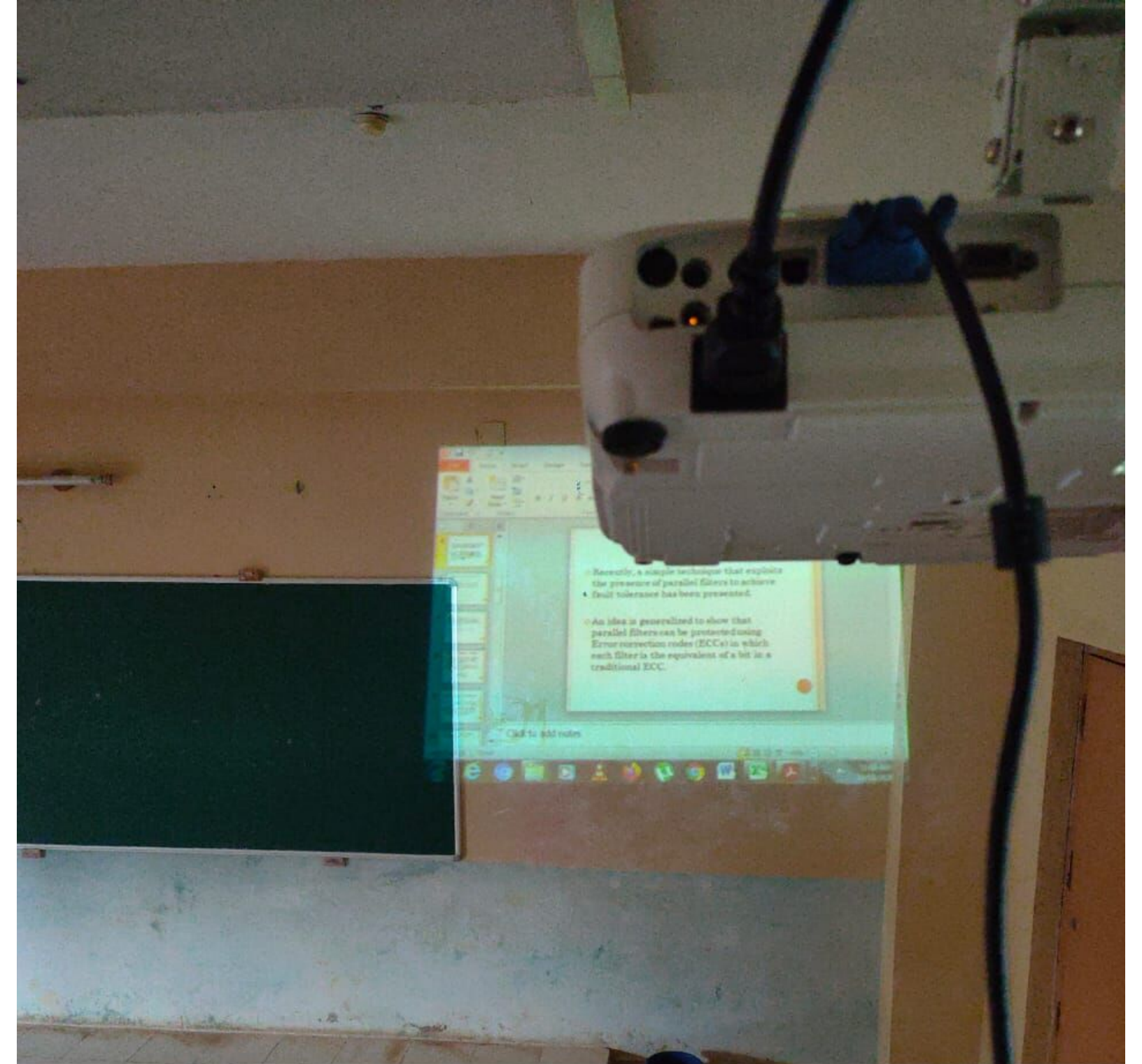
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Sunday, 18-10-2020



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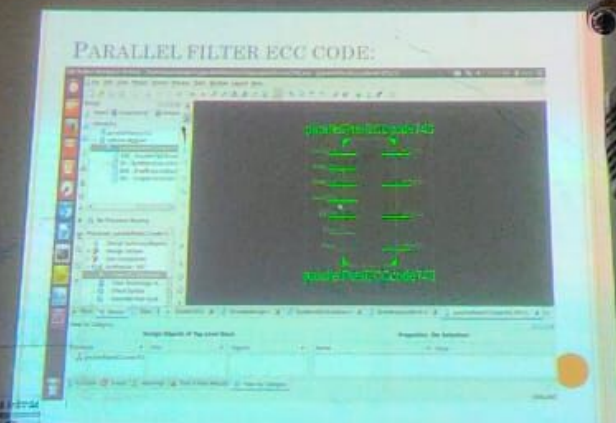
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Sunday, 18-10-2020



Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

Latitude

14.5646677°

Longitude

79.9887299°

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Altitude -85.5 meters

Sunday, 18-10-2020

BENEFITS AND FUTURE SCOPE

- The technique provides larger benefits when the number of parallel filters is large.
- The proposed scheme can also be applied to the IIR filters. Future work will consider the evaluation of the benefits of the proposed technique for IIR filters.
- The extension of the scheme to parallel filters that have the same input and different impulse responses is also a topic for future work.

Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

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Longitude

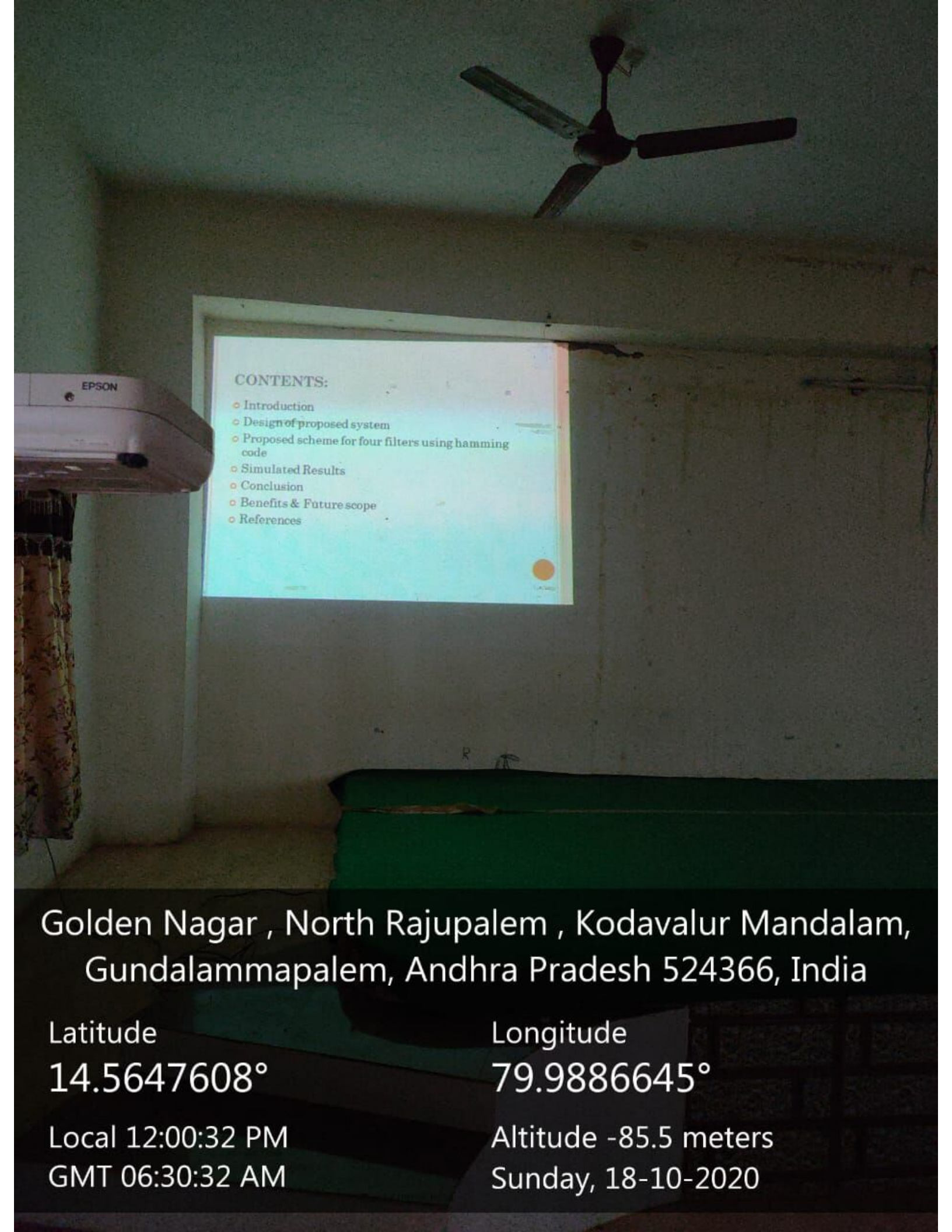
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Altitude -85.5 meters

Sunday, 18-10-2020



CONTENTS:

- Introduction
- Design of proposed system
- Proposed scheme for four filters using hamming code
- Simulated Results
- Conclusion
- Benefits & Future scope
- References

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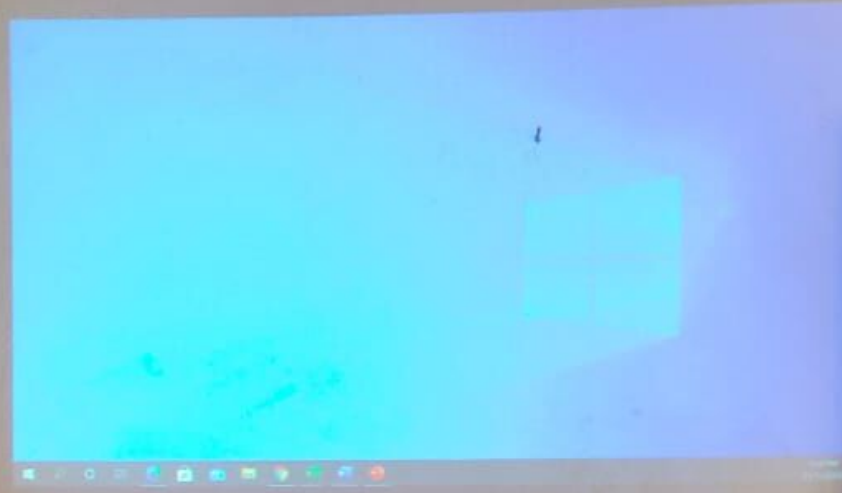
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Sunday, 18-10-2020



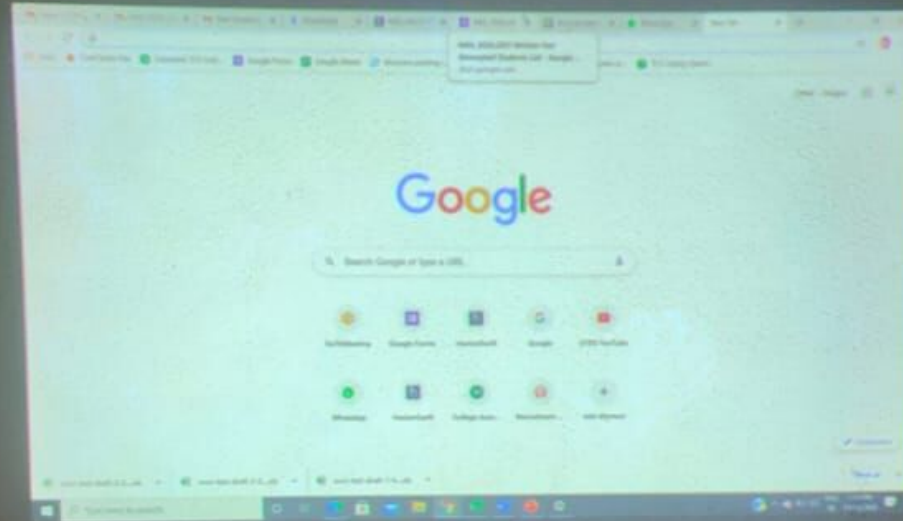
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Lat N 14° 33' 46.872"

Long E 79° 59' 9.1788"

13/11/20 03:09 PM



Naidupalem, Andhra Pradesh, India

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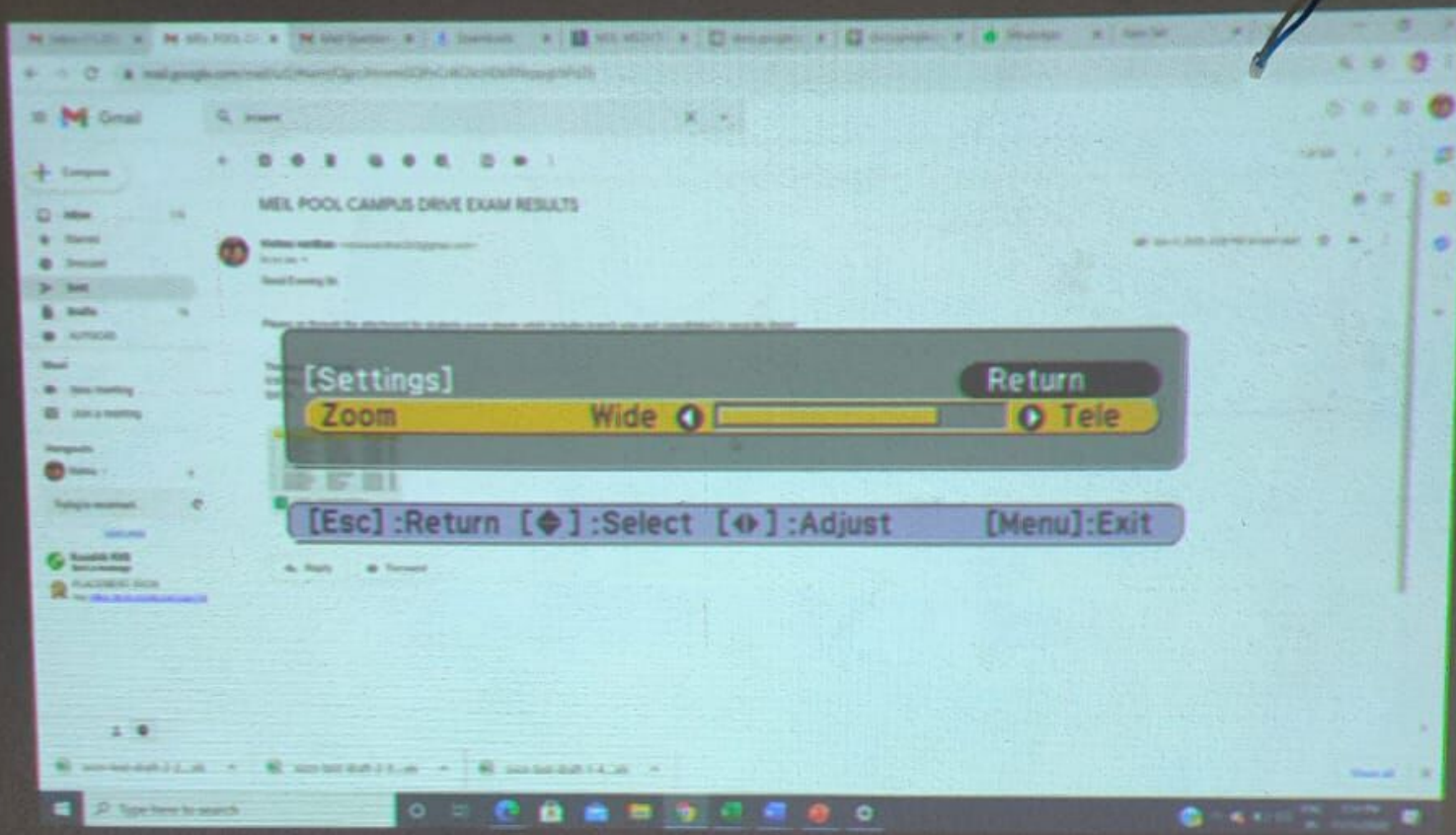
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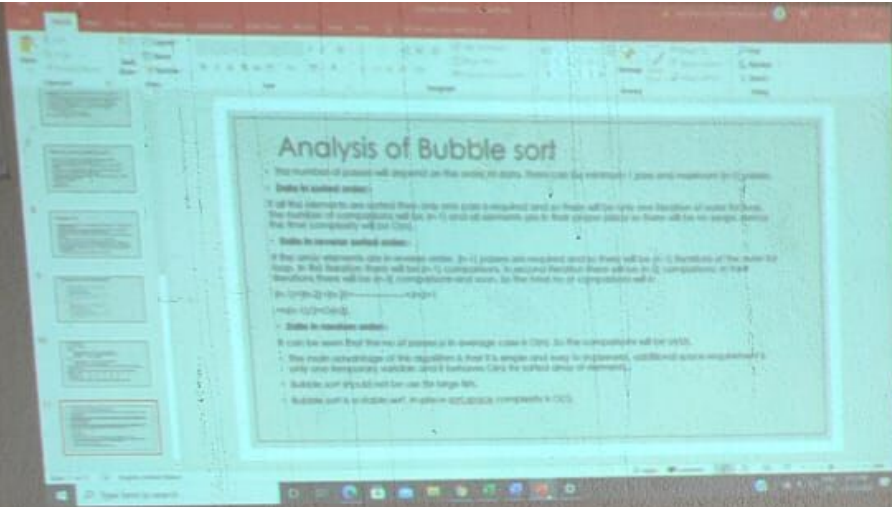
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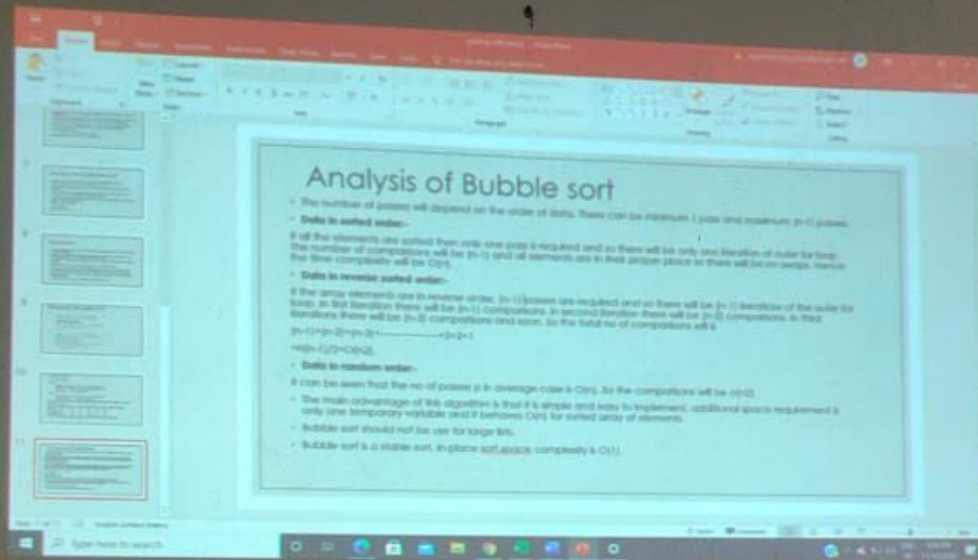
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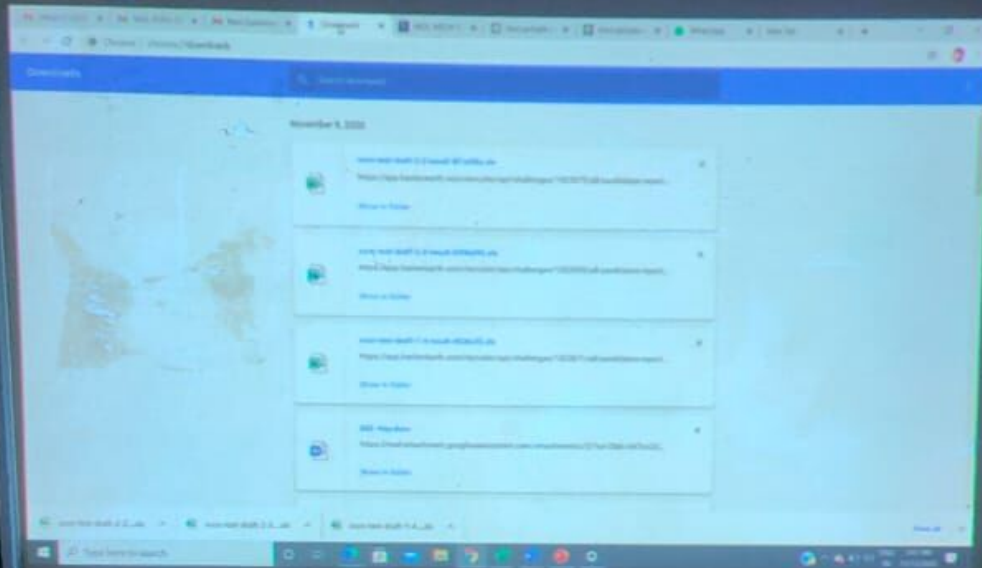
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Long E 79° 59' 18.3624"
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Naidupalem, Andhra Pradesh, India

Chennai - Srikakulam Hwy, Naidupalem, Andhra Pradesh 524317, India

Lat N 14° 33' 46.872"

Long E 79° 59' 9.1788"

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Pass- $n-2$:
 compare $ar[0]$ and $ar[1]$, if $ar[0] > ar[1]$ then exchange them,
 compare $ar[1]$ and $ar[2]$, if $ar[1] > ar[2]$ then exchange them,
 Result: $ar[2], \dots, ar[n-1]$ are sorted.

Pass- $n-1$:
 compare $ar[0]$ and $ar[1]$, if $ar[0] > ar[1]$ then exchange them,
 Result: $ar[1], ar[2], \dots, ar[n-1]$ are sorted.

The remaining element $ar[0]$ will definitely be the smallest element, so the whole list is sorted after $n-1$ passes.

Ex-40 20 50 60 30 10

- Sometimes it is possible that a list of n elements becomes sorted in less than $n-1$ passes. For example

Consider this list: 40 20 10 30 50 60

After first pass: 20 10 30 40 50 60

After second pass: 10 20 30 40 50 60

Here the list of 6 elements get sorted in just 2 passes. Hence the other passes are unnecessary.



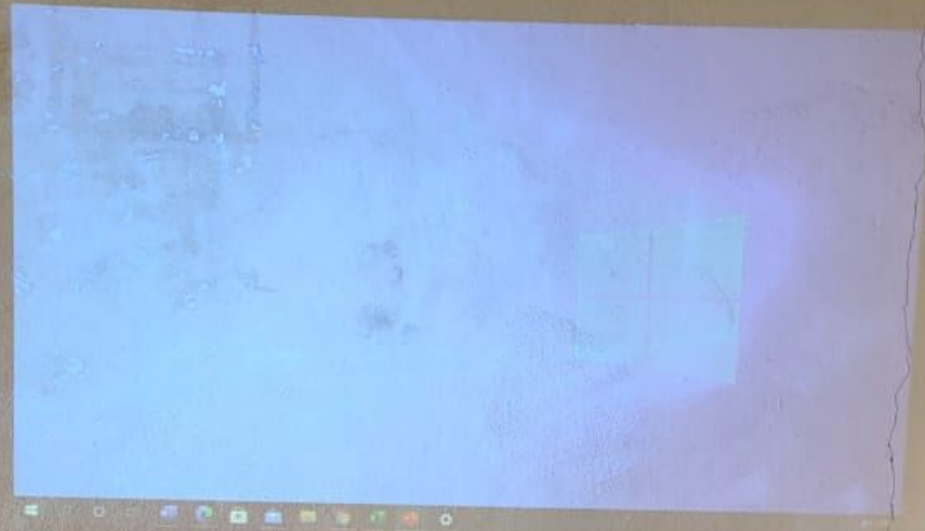
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Lat N 14° 33' 46.872"

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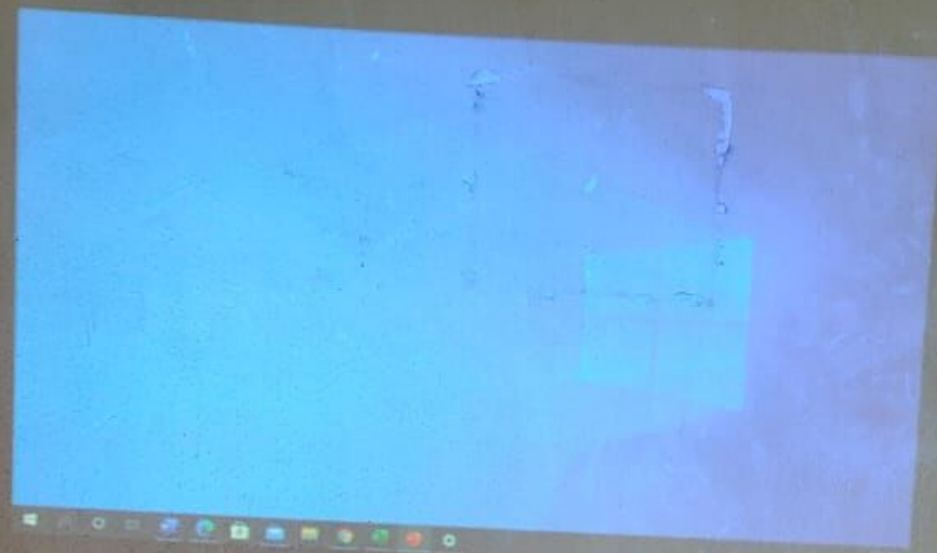
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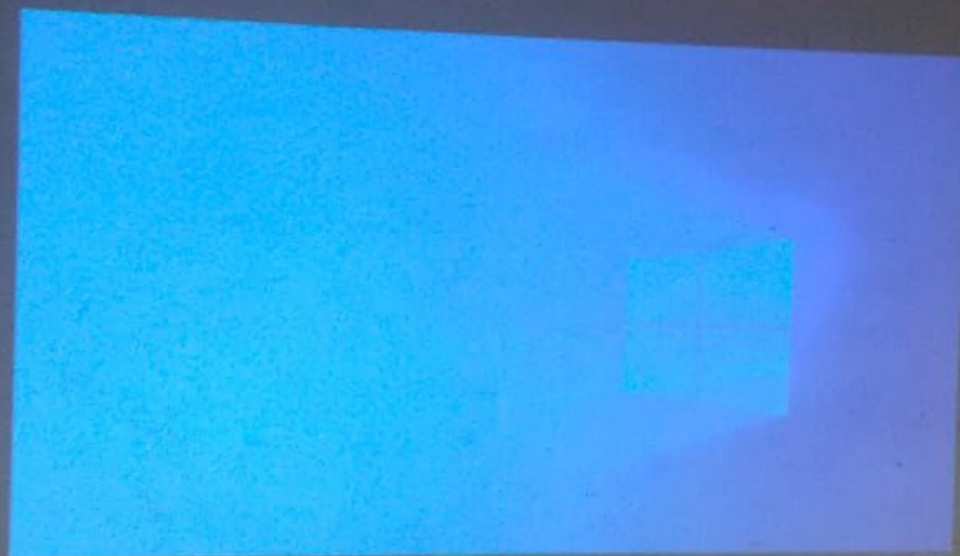
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Gundalammapalem, Andhra Pradesh, India

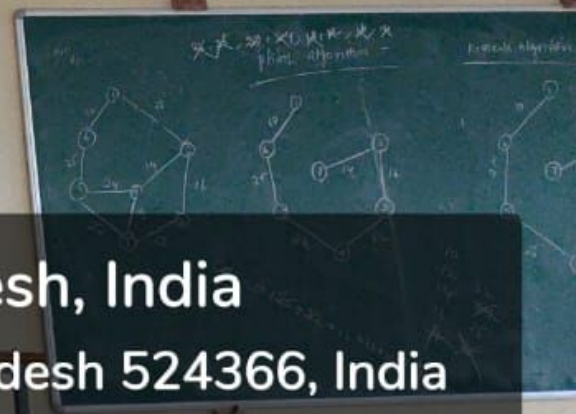
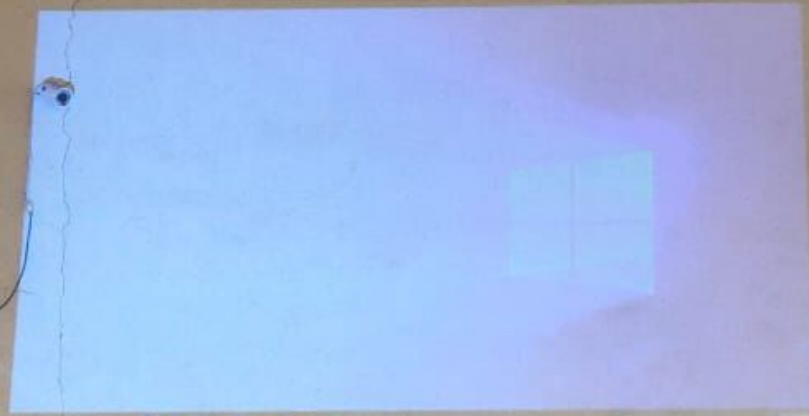
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Lat N 14° 33' 46.1196"

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13/11/20 04:28 PM





North Rajupalem, Andhra Pradesh, India

SH 347, North Rajupalem, Andhra Pradesh 524366, India

Lat N $14^{\circ} 33' 37.7532''$

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Naidupalem, Andhra Pradesh, India

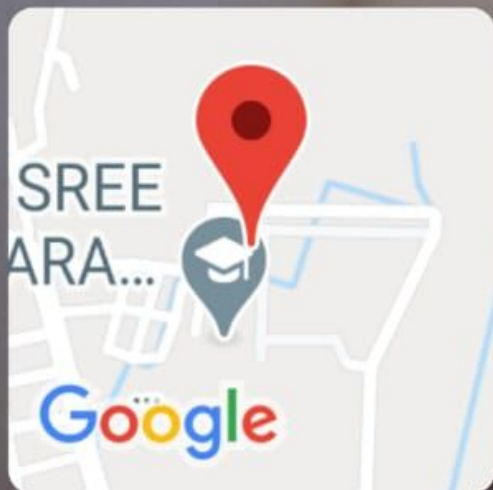
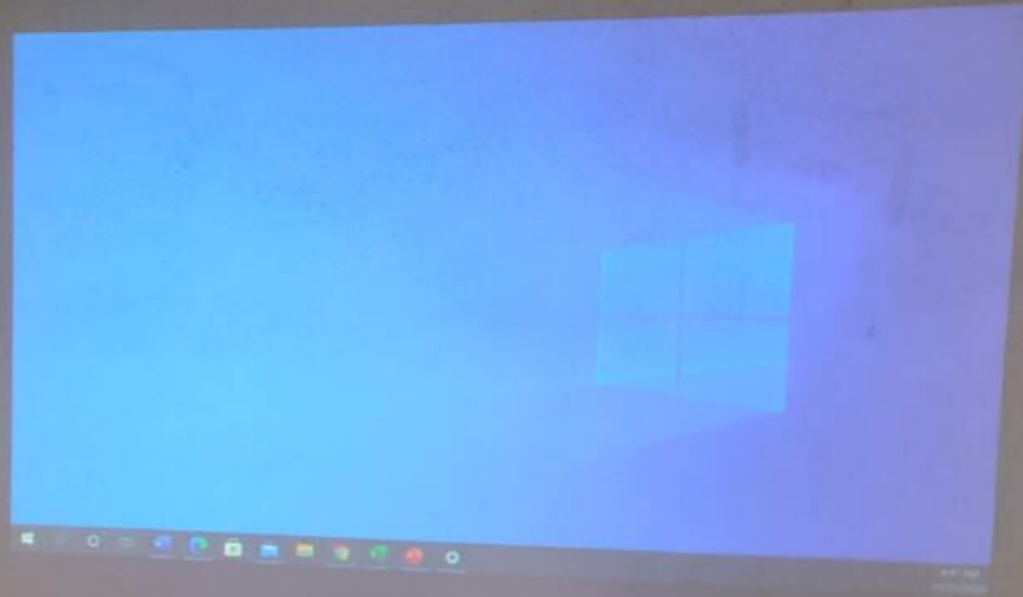
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Gundalammapalem, Andhra Pradesh, India

SVCN College Rd, Gundalammapalem, Andhra Pradesh 524366, India

Lat N 14° 33' 53.6184"

Long E 79° 59' 20.2704"

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Gundalammapalem, Andhra Pradesh, India

SH 347, Gundalammapalem, Andhra Pradesh 524316, India

Lat N 14° 33' 46.1196"

Long E 79° 59' 51.9576"

13/11/20 04:32 PM



Pros and cons of Selection sort:-

- Selection sort is simple and requires only one temporary variable to swapping elements.
- Main advantage of selection sort is that data movement is very less.
- If many elements are at proper place i.e. the list is almost sorted then there will be very little data movement.
- So, thus we see number of swaps depend on the order of data, and it can never be more than $n-1$.
- The swaps are very less as compared to insertion and bubble sorts.
- If the records are very large then cost of moving data is more than cost of comparisons, so if the records are large it is better to use selection sort.
- Selection sort is not a stable sort.
- It is an in-place sort.
- Space complexity is $O(1)$.

Gundalammapalem, Andhra Pradesh, India

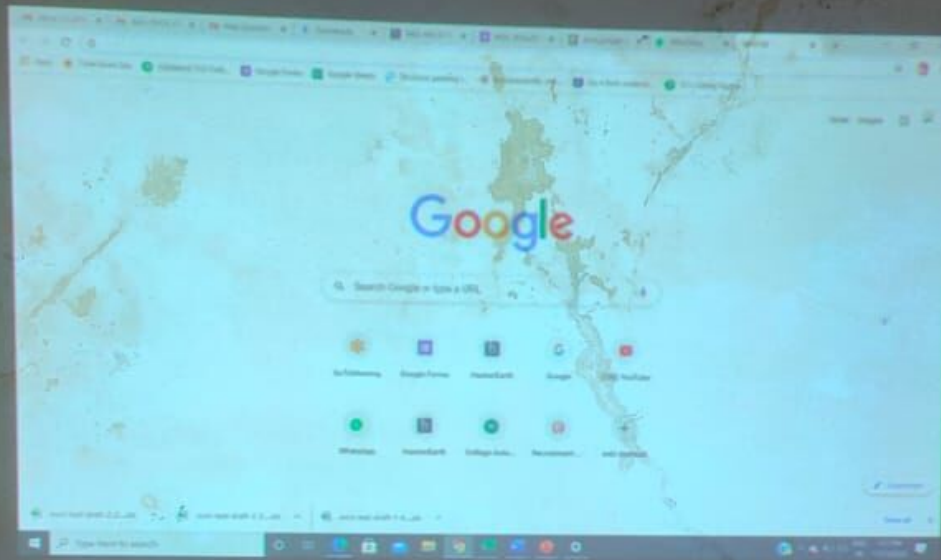
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Naidupalem, Andhra Pradesh, India

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Naidupalem, Andhra Pradesh, India

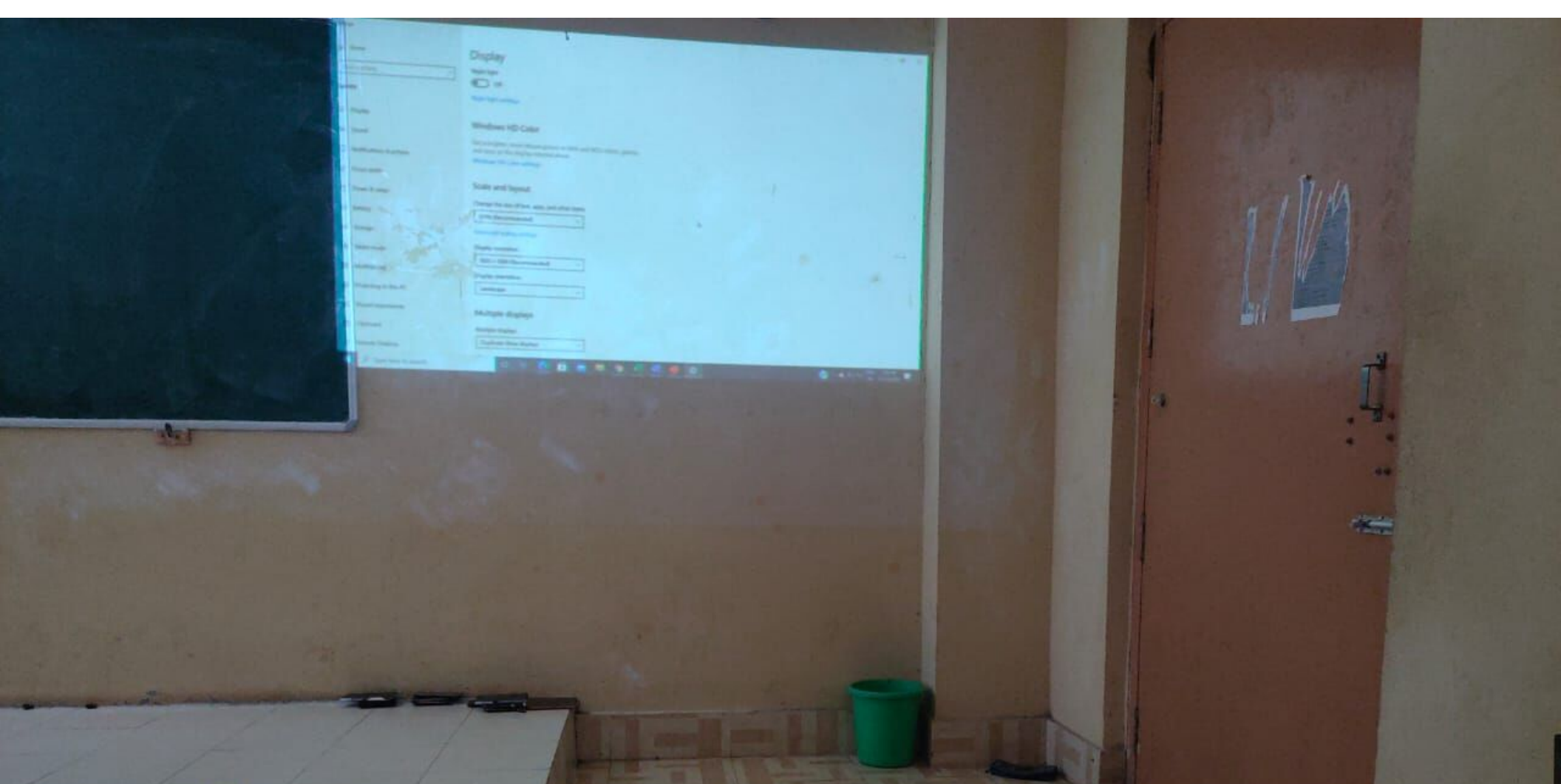
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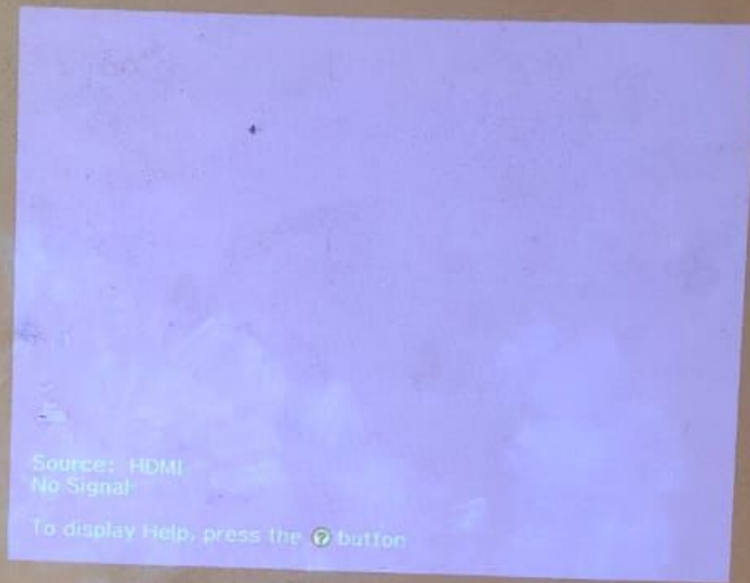
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Naidupalem, Andhra Pradesh, India
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